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**Date:** February 18, 2004

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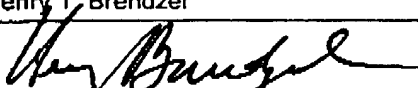
**Re:** Serial No: 09/668,199

**Pages:** Cover + 11


Henry Brendzel

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Complete if Known	
		Application Number	09/668,199
		Filing Date	9/22/2000
		First Named Inventor	Naofal Al-Dhahir
		Examiner Name	Cicely Q. Ware
		Group/Art Unit	2634
Total number of pages in this Submission: this page, plus 10		Attorney Docket ID	Al-Dhahir 2

ENCLOSURES (check all that apply)		
If Fee Form is not included, but a fee is due, the Commissioner is Authorized to charge Deposit Account No 500732 of Henry T. Brendzel, and consider that appropriate requests have been made.  <input type="checkbox"/> Fee Form ( <input type="checkbox"/> Check included)  <input checked="" type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavit(s)/Declaration(s)  <input checked="" type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority document(s)  <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.2 or 1.53	<input type="checkbox"/> Declaration (no Missing Parts Notice)  <input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition Routing Slip (TO/SB/69) and Accompanying Petition  <input type="checkbox"/> To Convert a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation or Change of Correspondence Address  <input type="checkbox"/> Express Abandonment  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> To Convert to Statutory Invention Registration	<input type="checkbox"/> Postcard(s)  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> Request for a Refund  <input type="checkbox"/> After Allowance Communication to group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communications to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input type="checkbox"/> Other

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Firm or Individual Name	Henry T. Brendzel	
Signature		Date 2/18/04

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**Patent Application**

Inventor(s)	Naofal Al-Dhahir	Case Name	Al-Dhahir 2
Filing Date	9/22/2000	Serial No.	09/668,199
Examiner	Cicely Q. Ware	Group Art Unit	2634
Title	Finite-Length Multi-Input Multi-Output Channel Shortening Pre-filters		

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
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SIR:

**AMENDMENT**

In response to an Office action dated November 12, 2003, please amend the  
above-identified application as follows:

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IN THE SPECIFICATION:

*Please replace the paragraph beginning at the top of page 5 with:*

Once  $H$ ,  $R_{xx}$  and  $R_{nn}$  are known,  $R_{xy}$  and  $R_{yy}$  are computed by  $R_{xx}H^*$  and  $HR_{xx}H^* + R_{nn}$ , respectively.

*Please replace the paragraph beginning at line 9 of page 6 with:*

Under one optimization approach the coefficients of  $B$  are constrained so that some coefficient of  $B$  is equal to the identity matrix,  $I$ . A solution, subject to this Identity Tap Constraint (ITC), can be expressed by

*Please replace the paragraph beginning at line 25 of page 7 with:*

The structure of pre-filter 30 is shown in FIG. 12. ~~In the illustrated embodiment, it~~ which comprises two main components: processor 220 and filter section 210.

*Please replace the paragraph beginning at line 28 of page 7 with:*

Filter section 210, shown in the FIG. 2, ~~illustrative example~~ comprises a collection of FIR filters that connect the  $n_o$  input array of signals from sampling circuit 20 to an  $n_i$  output array of points. That is, there are  $j \times i$  FIR filters  $P_{ji}$ , that couple input point  $j$  to output point  $i$ .